

Attorney:
RND/MKG
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Application:
System, Method And
Article Of
Manufacture To
Determine And
Communicate
Optical Lens Sizing
And Prescription
Information

Client:
Tom Yancy

File Number:
TOM995/99795

Sheet Number:
of

Date:
11/23/99

Revision:
3

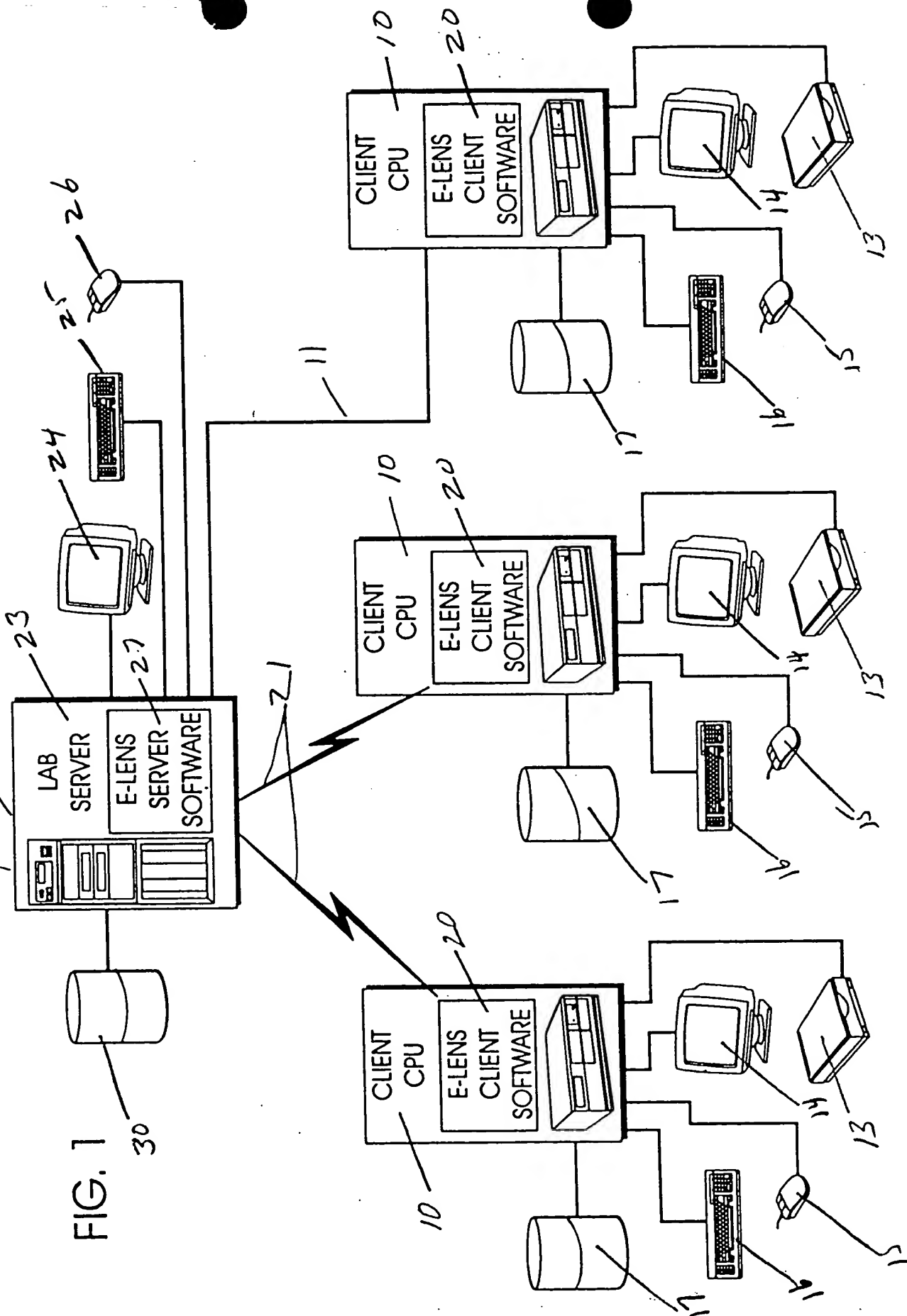
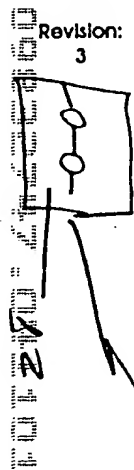


FIG. 1



FIGURE 3

Determining Scanned Image First Axis Centerpoint of Reference

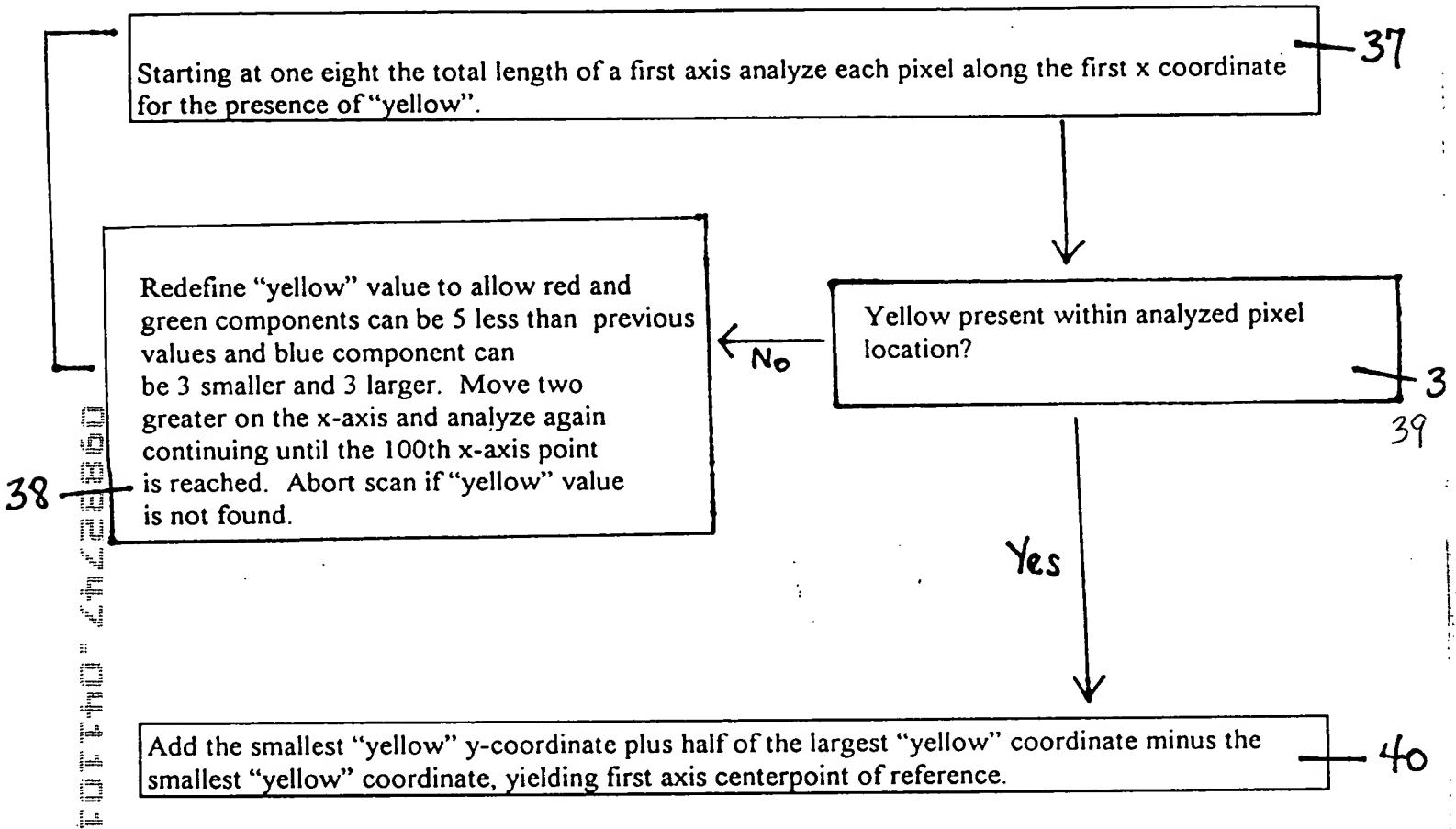


FIGURE 4

Determining Scanned Image Second Axis Centerpoint of Reference

Starting at one eight the total length of a second axis, start analyze each pixel along the first y coordinate for the presence of "yellow".

42

Redefine "yellow" red and green components can be 5 less than previous values and blue component can be 3 smaller and 3 larger. Move two greater on the y-axis and analyze again, continuing until the 100th y-axis point is reached. Abort scan if "yellow" value is not found.

No

Where any "yellow" points found?
"Yellow" present within analyzed pixel location?

46

Yes

Add the smallest x-coordinate that as "yellow" plus half of the largest "yellow" coordinate minus the smallest "yellow" coordinate, yielding second axis centerpoint of reference.

48

44
T.O.T.H.O. 4422360

FIGURE 5

Determining a Starting Radius

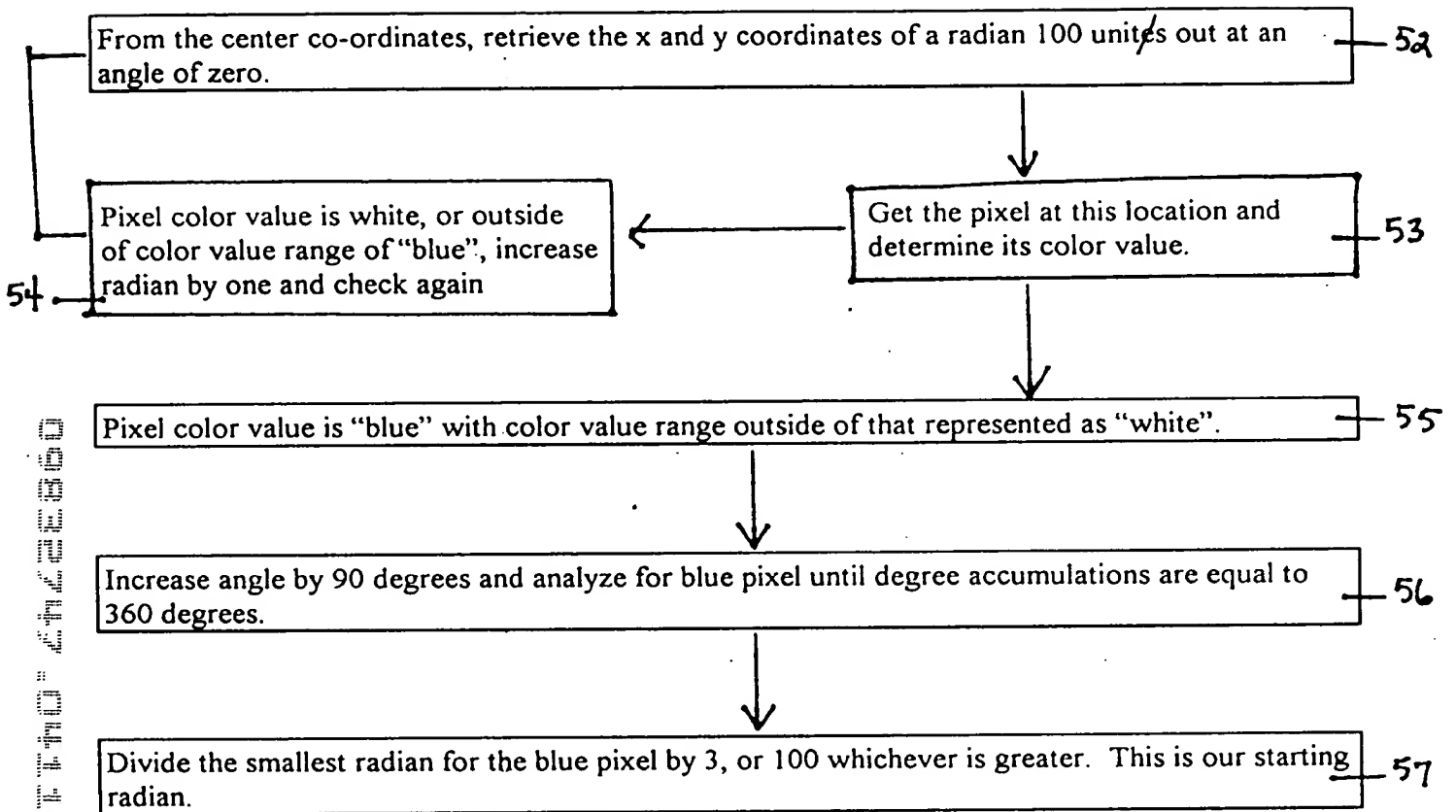


FIGURE 6

Centering a Scanned Image Shape

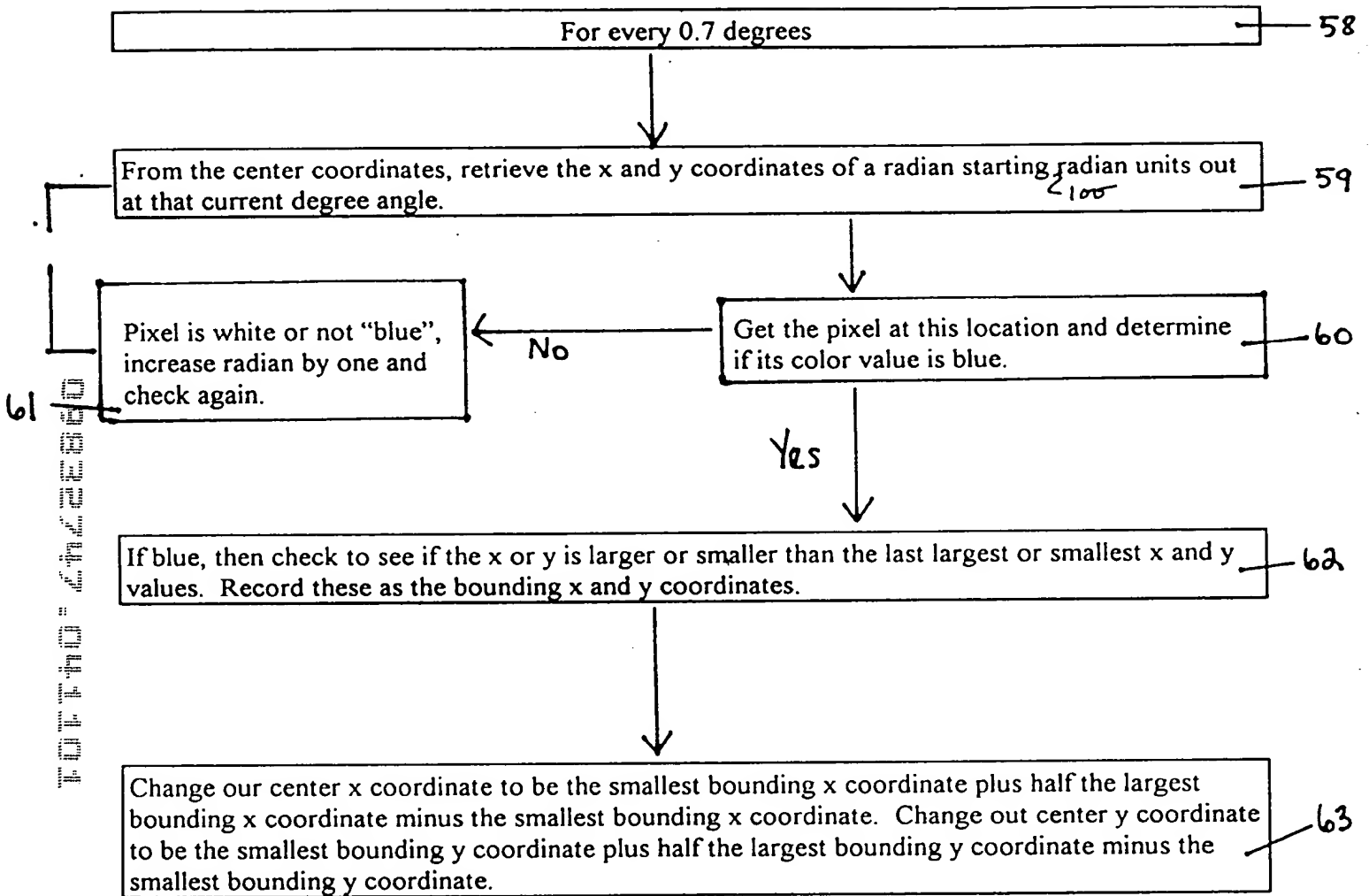
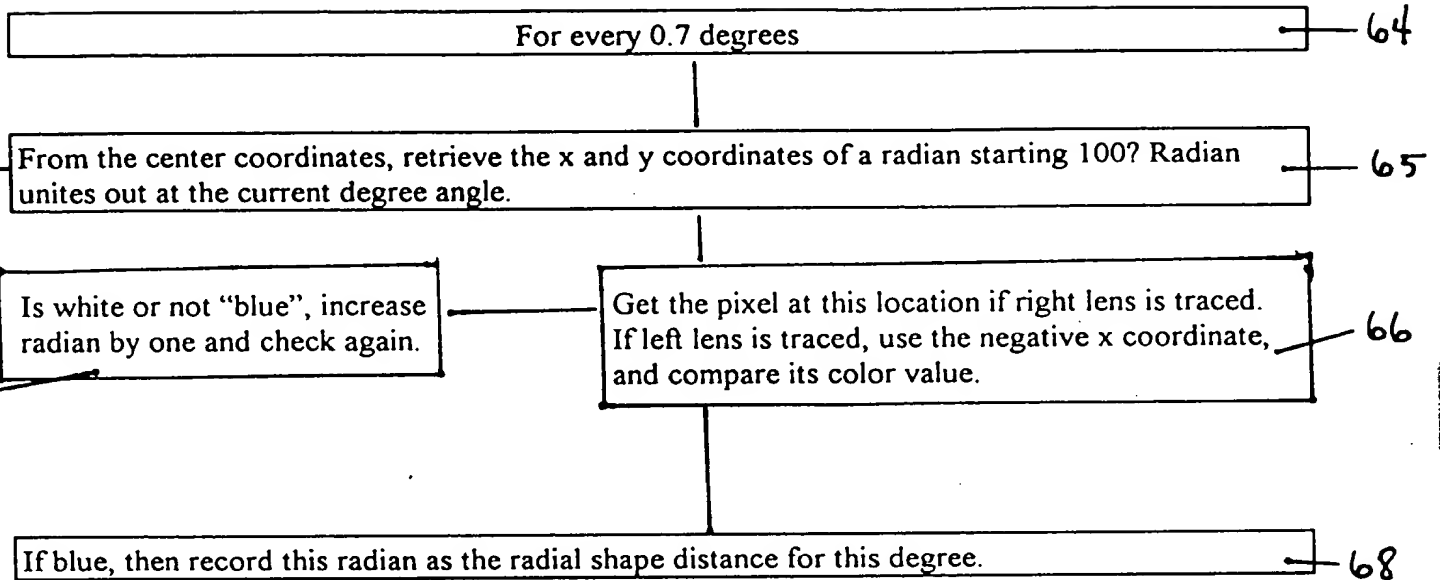


FIGURE 7

Determining a Scanned Image Radial Shape



TOPFOOT-4422880

FIGURE 8

Determining a Scanned Image Radial Size

For every 0.7 degrees

72

For the radial shape distance for this degree, subtract the figure provided by calibration. This reduction eliminates the extra size that the pen creates.

Divide each radian by the configurable DPI setting of the scanner, example 400, this is our conversion to inches.

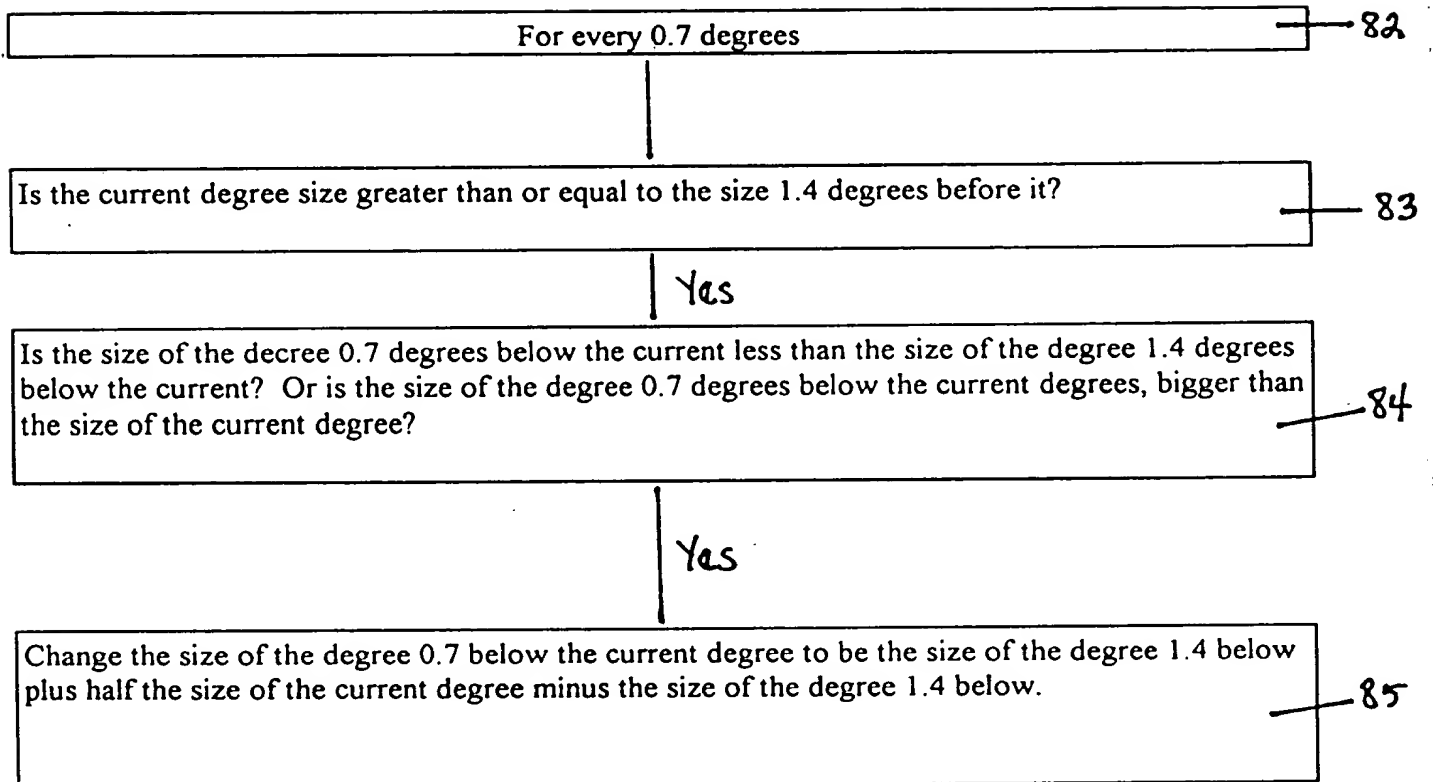
73

Convert inches to millimeters by dividing by 0.039370. Then multiply by 100. This gives each radian in mm*100.

TOP SECRET

FIGURE 9

Smoothing a Scanned Image Radial Shape



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FIGURE 10

Modify Size of Derived Radial Shape

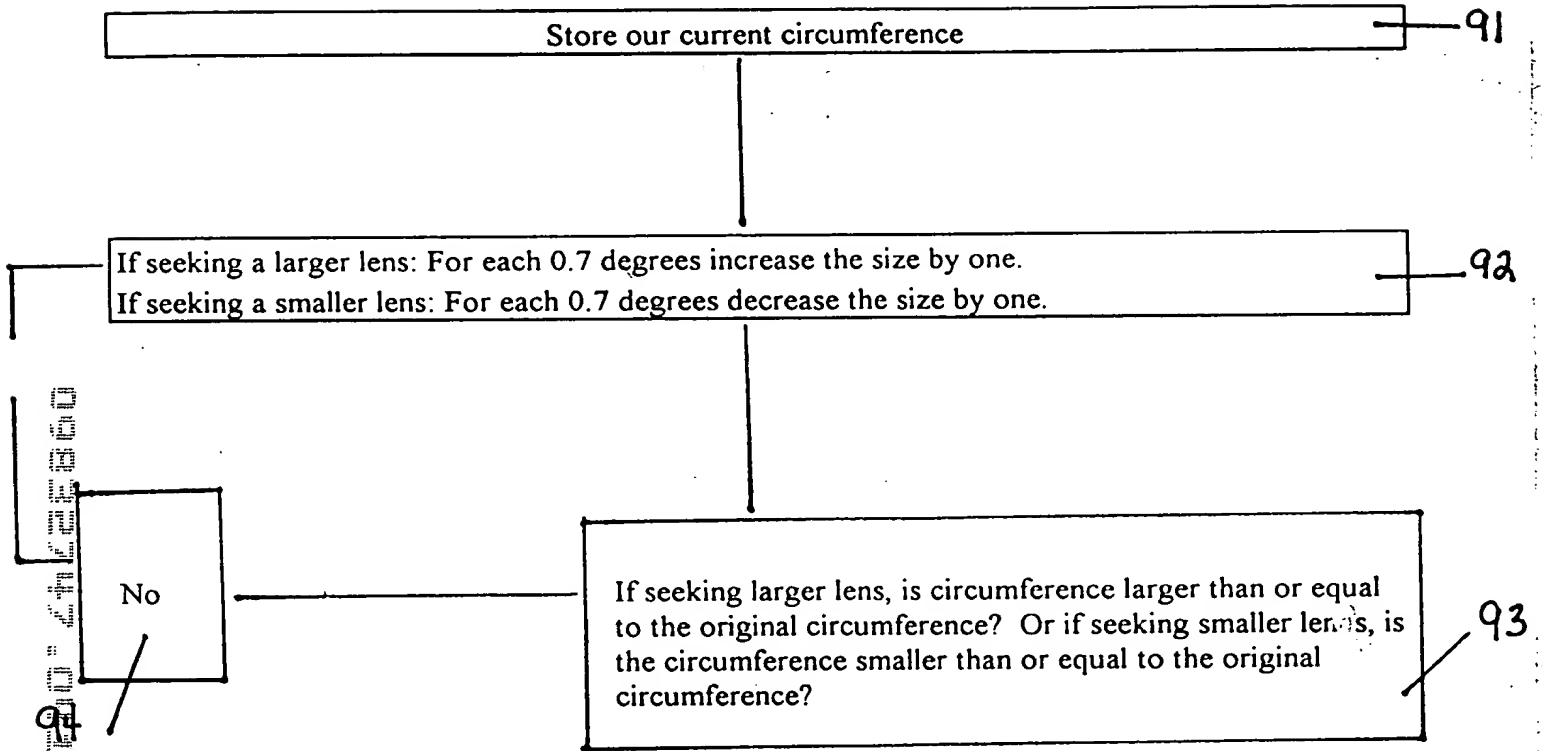
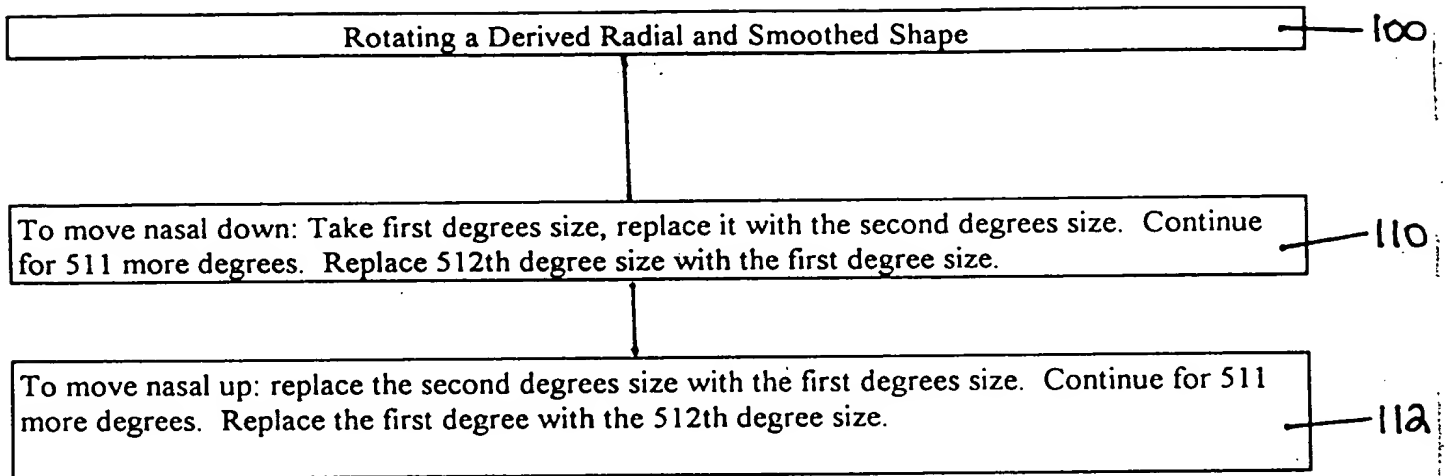


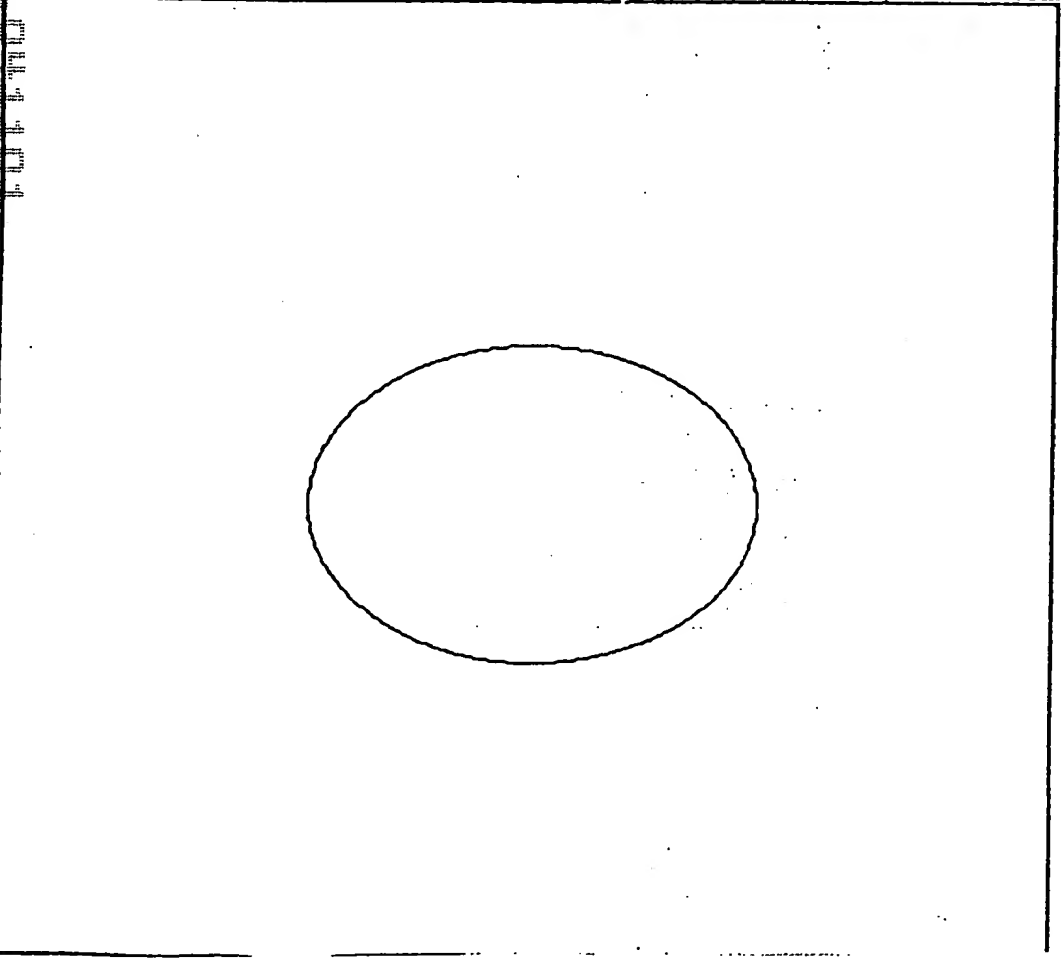
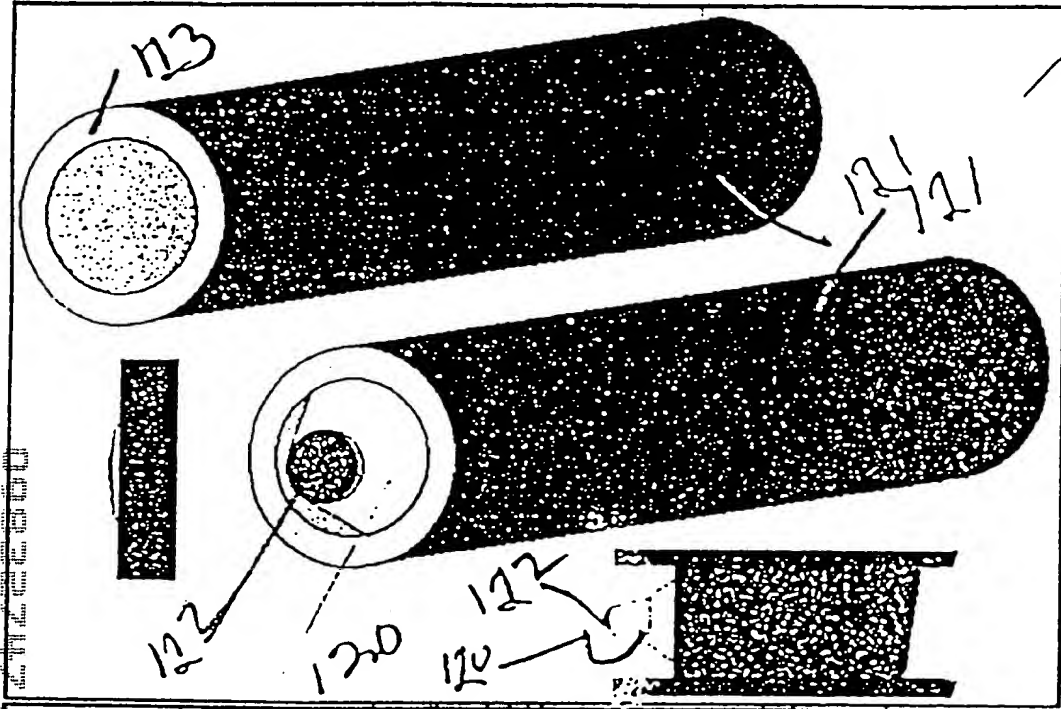
FIGURE 11



00000-4444-1000

Fig 12/11

Description
 Pen
 a pla
 cons
 edge
 pres



Place trial le
 paper.

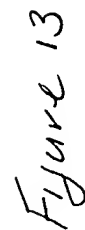


Figure 13

e.lens Order(Specialty Optical Services)

Patient Name: Smith, Mary Stray ☐ Bob ☐ Rick ☐ Lori

☒ Lenses only ☐ Uncut ☐ Lab supplied ☐ To come ☐ Other

Frame Name: Shawna Shape: 511
 Manufacturer: Kenmark Mode: 511
 Frame Color: Demi Type: Metal
 Eye Size: 57 DBL: 19.00 Temple: 0.00

Material: 01 CR-39 Type: 02 Bifocal
 Lens: 02 FT 28 Color: 01 Transitions III G
 Lab Tint: Type:

0 DBL 19.0 Circ 127.77
A:42.9 B:34.8 E.D:45.5
Size/Axis

Sph			Cyl			Axis			ABO			H. Devs			L. PC			Nose PD			Obl Center		
R	-0.25	+0.00	180	+1.00	+0.00	+30.00	+28.50	+0.00															
L	-0.50	-1.00	080	+1.00	+0.00	+30.00	+28.50	+0.00															

Seg Height			Horiz Prism			Vert Prism		
R	+25.00	High	+0.00		+0.00			
L	+25.00	High	+0.00		+0.00			

Grind: Thin
 Edge: 02 Polish Edg
☒ Premium

Comment: We need this order ASAP

Save Misc/Coatings Advanced Add Patient Info About

TOTAL 4422300

② NEW ORDER + Edit Screen

Figure 14

e.lens Order(Specialty Optical Services)

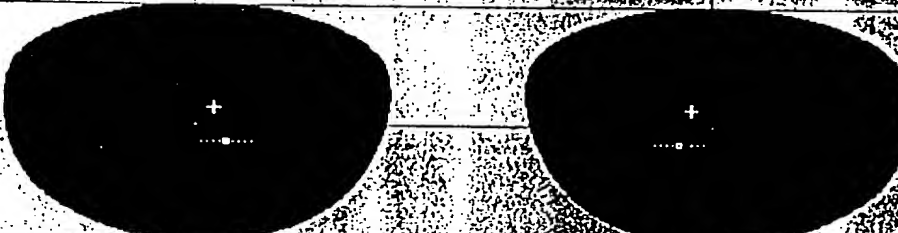
		
Opt Cen R • 16.41 L • 16.41 Geo Cen • 16.41 Seg H R • 14.00 L • 14.00	DBL 17.0 Circ 131.09 A 48.7 B 32.8 E.D. 46.3	+ • Optical center • Geometric center • Sag height
<input type="button" value="Nasal Up"/> <input type="button" value="Nasal Down"/>	Rotation: 0 Size: 0	<input type="button" value="Increase Size"/> <input type="button" value="Decrease Size"/>
DBL <input type="text" value="17.00"/>	FPD R <input type="text" value="+30.00"/> L <input type="text" value="+30.00"/>	NPD R <input type="text" value="+28.50"/> L <input type="text" value="+28.50"/>
<input type="button" value="Return with Modifications"/>		<input type="button" value="Abort"/>

Figure 16

T0740-442230